

Claim Status:

1-15. (Cancelled)

16. (Currently Amended) A method of controlled dispensing of a material ~~along a length~~ onto a plurality of an elongated window ~~component~~ components comprising:

a) moving a plurality of an elongated window ~~component~~ components along a path of travel relative to a material dispensing nozzle at a controlled speed;

b) delivering the material from a bulk supply to an inlet of a ~~metering~~ gear pump having an outlet coupled to the nozzle to dispense the material from the nozzle into contact with a surface of the elongated window component;

c) opening and closing the nozzle based on movement of the plurality of elongated window components to avoid dispensing material into gaps between components;

~~e d)~~ regulating the speed of the ~~metering gear~~ gear pump to control the rate of flow of the dispensed material from the nozzle when the nozzle is open based on a relative speed of movement between the window component and the nozzle;

~~d e)~~ monitoring the pressure of the material with a pressure transducer before said material is dispensed from the nozzle; and

[[e]] ~~f)~~ regulating the pressure of the material delivered to the metering pump from the bulk supply based on the pressure sensed by the pressure transducer.

17 and 18 (Cancelled)

Please cancel claim 19 without prejudice or disclaimer.

19. (cancelled)

20. (currently amended) The method of claim ~~19~~ 16 wherein the elongated window ~~component is a~~ components are U shaped spacer ~~frame~~ frames including an opening along its their length and stopping the dispensing leaves the opening uncovered

acceleration and deceleration of the metering pump.

30-45. (Cancelled)

46. (Currently Amended) A method of controlled dispensing of a material onto a a plurality of window component components comprising:

- a) moving ~~[[a]]~~ window ~~component components~~ along a path of travel relative to a material dispensing nozzle;
- b) delivering the material from a bulk supply with a pump mechanism to an inlet of a ~~metering gear~~ pump having an outlet coupled to the nozzle to dispense the material from the nozzle into contact with a surface of the window component;
- c) opening and closing the nozzle based on movement of the window components to avoid dispensing material into gaps between components;
- d) monitoring the pressure of the material with a pressure transducer at a location before said material is dispensed from the nozzle;
- ; and
- ~~[[c]]~~ e) regulating the speed of the metering pump dependent on a relative speed of movement between the nozzle and the window component to control the rate of flow of the dispensed material from the nozzle ; and
- f) regulating the pressure of the material delivered to the metering pump by the pump mechanism based on the pressure sensed by the pressure transducer as the nozzle opens and closes.

Please cancel claims 47 and 48 without prejudice or disclaimer.

47 and 48. (Cancelled)

49. (Previously Presented) The method of claim 46 wherein regulating the pressure is performed to minimize differences in pressure across the metering pump.

Please cancel claim 50 without prejudice or disclaimer.

50. (Cancelled)

51. (Previously Presented) The method of claim 46 wherein the speed of the metering pump is dependent on a type of elongated window component being processed.

52. (currently amended) A method of controlled dispensing of a material onto a window component comprising:

a) delivering the material from a bulk supply with a pump mechanism to an inlet of a ~~metering gear~~ pump having an outlet coupled to the nozzle;

b) dispensing the material from the nozzle into contact with a surface of the window component by driving the ~~metering gear~~ pump; and,

c) regulating the speed of the ~~metering gear~~ pump to control the rate of flow of the dispensed material from the nozzle based on a speed of movement of the window component with respect to the nozzle ;

d) monitoring the pressure of the material with a pressure transducer before said material is dispensed from the nozzle; and

e) regulating the pressure of the material delivered to the gear pump at or near a desired pressure within a range of from 600 to 1500 pounds per square inch by the pump mechanism based on the pressure sensed by the pressure transducer.

Please cancel claim 53 and 54 without prejudice or disclaimer

53 and 54. (Cancelled)

55. (Currently Amended) The method of claim ~~52~~ 46 wherein regulating the pressure is performed to ~~minimize differences in~~ maintain a pressure ~~across~~ entering the metering pump at or near a desired pressure between 600 and 1500 pounds per square inch.

Please cancel claims 56 and 57 without prejudice or disclaimer

as the spacer frame passes the nozzle.

21. (Original) The method of claim 16 additionally comprising presenting a user interface which allows the user to adjust input parameters for dispensing material from the nozzle.

22. (Currently Amended) The method of claim 21 wherein the window ~~component is a~~ components are U shaped spacer ~~frame~~ frames and wherein an input parameter is a width of said spacer ~~frame~~ frames.

23. (Original) The method of claim 16 wherein regulating the pressure is performed to minimize differences in pressure across the metering pump.

24. (Original) The method of claim 16 wherein monitoring comprises monitoring pressure on an inlet side of the metering pump.

25. (Original) The method of claim 16 wherein the speed of the metering pump is dependent on the speed of a conveyor.

26. (Original) The method of claim 16 wherein the speed of the metering pump is dependent on a type of elongated window component being processed.

27. (Original) The method of claim 16 wherein the speed of the metering pump is dependent on a desired material thickness.

28. (Currently amended) The method of claim 16 wherein the window components are spacer frames and the speed of the metering pump is dependent on a spacer frame width.

29. (Original) The method of claim 21 wherein the input parameters include

56 and 57. (Cancelled)